

WHAT IS CLAIMED IS:

1. A method of establishing electronic documents for storing,
retrieving, categorizing and quick linking to enable a user to browse
5 the electronic documents and related information via a network, the
method comprising:

establishing an electronic document via the network, the
document comprising: a title definition item, a body definition
item, a keyword definition item, and a category definition item;

10 individually storing each electronic document according to
every definition item and generating links among the different
electronic documents;

displaying a plurality of data category items from which the
user is able to choose;

15 receiving a user query;

extracting a conforming electronic document by performing
a predetermined algorithm to compare every definition item of
each electronic document and selecting other related electronic
documents having the same keyword or category; and

20 converting definition items of the conforming electronic
document and a plurality of references from the related
electronic documents into a predetermined format to generate
hyperlinks for the definition items and the references.

25 2. The method of claim 1, further comprising the step of

providing an on-line electronic document-establishing form in a root structure system, which enables an authorized data author to edit a new electronic document via the network.

5 3. The method of claim 1, further comprising the step of simultaneously displaying a converted electronic document and the references of the associated data.

10 4. The method of claim 1, further comprising the step of providing a managing function to an authorized administrator to control all electronic documents.

15 5. The method of claim 1, further comprising the step of temporarily storing each extracted electronic document and its related data in order and providing a managing function of stored data.

20 6. The method of claim 1, further comprising the step of establishing category definition items in a tree structure.

 7. The method of claim 1, further comprising the step of automatically providing the keyword definition item and the category definition item for the authorized data author.

8. The method of claim 1, wherein the category definition item is used to define a domain classification of each new electronic document, and each electronic document can be referenced to a plurality of different category definition items.

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9. The method of claim 1, wherein each new electronic document has at least one keyword which is defined according to the content of the electronic document.

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10. The method of claim 1, wherein the related electronic documents of each electronic document are extracted by performing a predetermined algorithm to calculate the relative relatedness of each electronic document according to the keywords and the categories, and a complementary weighting of the keywords and the categories of the algorithm can be modulated.

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11. The method of claim 1, wherein each keyword can be defined as identical to a plurality of synonyms.

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12. The method of claim 1, wherein the predetermined format is programmed using Extensible Markup Language (XML) or Extensible Stylesheet Language (XSL).

13. The method of claim 13, wherein the content and the definition item of each electronic document are stored as Extensible Markup Language. (XML).

5 14. The method of claim 5, wherein when each new electronic document is generated, all temporarily stored electronic documents and related data are eliminated.

10 15. The method of claim 1, wherein the electronic document includes: text files, documents, pictures, photographs, drawings, voice file, film file and video stream.

15 16. A retrieval system for establishing electronic documents for storing, retrieving, categorizing and quick linking enabling a user to browse the electronic documents and related information via a network, the system comprising:

 a database for storing associated data of all electronic documents;

 a server connected to a network, the server comprising:

20 an uploaded document receiving means for receiving an uploaded document that includes a plurality of predetermined definition items, and individually storing the document according to the predetermined definition items in the database;

 a query receiving means for receiving a query from a user;

a selecting means for extracting a conforming document and associated data from all the documents stored in the database by executing a predetermined algorithm to find a conforming document and other associated data; and

5 a linking format generating means for transforming the conforming document and associated data into a predetermined format to automatically generate hyperlinks for each predetermined definition item.

10 17. The information retrieval system of claim 16 further comprising a cache for storing a predetermined number of documents and associated data provisionally and managing all stored data.

15 18. The information retrieval system of claim 16, wherein the predetermined definition items includes a title definition item, a body definition item, a keyword definition item, and a category definition item.

20 19. The information retrieval system of claim 18, wherein the category definition item is used to define a domain classification of each new electronic document, and each electronic document can reference a plurality of different category definition items.

20. The information retrieval system of claim 16, wherein the information retrieval system builds category definition item in a tree structure.

5 21. The information retrieval system of claim 16, wherein the keyword definition item, and the category definition item are automatically generated by the information retrieval system.

10 22. The information retrieval system of claim 16, wherein each new uploaded document has at least one keyword which is defined according to the content of the document.

15 23. The information retrieval system of claim 16, wherein the related electronic documents of each electronic document are extracted from the database by executing a predetermined algorithm to calculate the relative relatedness of each electronic document according to the keywords and the categories.

20 24. The information retrieval system of claim 16, wherein the related electronic documents of each electronic document are extracted by executing a predetermined algorithm to calculate the relative relatedness of each electronic document according to the keywords and the categories, a complementary weighting of the keywords and the categories of the algorithm capable of being
25 modulated.

25. The information retrieval system of claim 16, wherein each keyword can be defined as identical to a plurality of synonyms.

5 26. The information retrieval system of claim 16, wherein the predetermined format is programmed using Extensible Markup Language (XML) or Extensible Stylesheet Language (XSL).

10 27. The information retrieval system of claim 26, wherein the content and the definition items of each electronic document are stored in the database using Extensible Markup Language (XML).

15 28. The information retrieval system of claim 16, wherein when each new electronic document is generated, all temporarily stored electronic documents and related data are eliminated.

20 29. The information retrieval system of claim 16, wherein the electronic document includes: text files, documents, pictures, photographs, drawings, voice files, film files or video streams.